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Declarations under Rule 4.17:

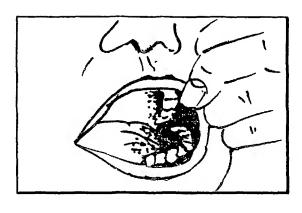
- as to the identity of the inventor (Rule 4.17(i)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- of inventorship (Rule 4.17(iv)) for US only

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[Continued on next page]

(54) Title: MUCOADHESIVE PHARMACEUTICAL FORMULATIONS



(57) Abstract: The invention relates to pharmaceutical formulations for use in the administration of lipophilic medicaments via mucosal surfaces. In particular the invention provides pharmaceutical formulations for use in administration of a lipophilic medicament via a mucosal surface which upon hydration form an emulsion containing the lipophilic medicament which is capable of adhering to a mucosal surface and allowing controlled release of the medicament. The invention further provides pharmaceutical formulations which contain, as active ingredients, specific combinations of cannabinoids in pre-defined ratios.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K9/127 A61K9/00 A61K35/78

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{localization} \begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{A61K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, CHEM ABS Data, BIOSIS, MEDLINE, PASCAL, EMBASE

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of	the relevant passages	Relevant to claim No
Х	US 3 560 625 A (CHRISTOPHER H COSTELLO; ET AL.) 2 February 1971 (1971-02-02) claims 1,3 column 1, line 28 - line 50 examples I,II,VII; table I examples II,VII; table VIII	1-5,8,9, 11,13,23	
X	WO 95 25504 A (PHARMAVENE) 28 September 1995 (1995-09-28 claims 1,4,5,15,20 page 13, paragraph 4 -page 14		1,2,9, 23-25, 27,28
		-/	
X Furt	her documents are listed in the continuation of box C.	X Patent family members are listed in	n annex.
"A" docume consid "E" earlier of filing of "L" docume which citatio "O" docume other of	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	"T" later document published after the interest or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cleannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cleannot be considered to involve an involve an inventive step when the cannot be considered to involve an inventive such combination being obvious in the art. "&" document member of the same patent for the sa	the application but only underlying the aimed invention be considered to sument is taken alone aimed invention entive step when the re other such docusis to a person skilled
	actual completion of the international search	Date of mailing of the international sea	rch report
	21 October 2002	1 2. 11. 2003	

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 01 66089 A (GW PHARMA) 13 September 2001 (2001-09-13) claims 1,8-11,13,14,18,23,24,26	1,2, 14-17, 23-27, 33-37, 40-45, 99,113, 114
	page 3, line 30 - line 31	
X	EITAN ALHANATY; ET AL.: "Osmotic fragility of liposomes as affected by antihemolytic compounds" BIOCHIMICA ET BIOPHYSICA ACTA, vol. 339, no. 1, 1974, pages 146-155, XP008008726 the whole document	109
A	WO 00 25127 A (UNIV MISSISSIPPI) 4 May 2000 (2000-05-04)	
A	PATRICIA S. FETTERMAN ET AL.: "CONSTITUENTS OF CANNABIS SATIVA L. I: PROPYL HOMOLOGS OF CANNABINOIDS FROM AN INDIAN VARIANT" JOURNAL OF PHARMACEUTICAL SCIENCES., vol. 61, no. 9, September 1972 (1972-09), pages 1476-1477, XP002217537 AMERICAN PHARMACEUTICAL ASSOCIATION. WASHINGTON., US ISSN: 0022-3549	

International application No. PCT/GB 02/00620

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-45,47-63,112, (partially) 99-103, (partially) 113-114

Pharmaceutical formulation for delivery of a lipophilic medicament through a mucosal surface comprising at least a lipophilic medicament and at least one self emulsifying agent, wherein upon hydration forms an emulsion which is capable of adhering to a mucosal surface.

2. Claims: 64-90,97,98,104-107, (partially) 99-103,113,114

Pharmaceutical formulation comprising cannabidiol and tetrahydrocannabinol, or tetrahydrocannabinovarin and cannabidivarin in a predefined ratio by weight.

3. Claims: 91-96, 108, (partially) 99, (partially) 113-114

Pharmaceutical formulation comprising THC and THCV wherein the amount by weight of THCV is approximately equal or greater than the amount by weight of THC.

4. Claims: 109-111

Use of cannabidiol to extend the shelf life of a pharmaceutical product which comprises one or more other biologically active components.

Information on patent family members

International Application No PCT/GB 02/00620

	atent document d in search report		Publication date		Patent family member(s)	Publication date
US	3560625	A	02-02-1971	AT BE DE ES FR GB IE NL	277448 B 711048 A 1667872 A1 349148 A1 7355 M 1209849 A 32432 B1 6802422 A	29-12-1969 01-07-1968 15-07-1971 01-09-1969 20-10-1969 21-10-1970 08-08-1973 21-08-1968
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